

# It's Organic, Man!

## Module 2

### It's Organic, Man!

#### Recycling at Home

Master Materials List	M2-1m
Nevada Standard Alignment	M2-1s
References	M2-1r
Lesson 9 – <b>Breakin' it Down</b> <i>Waste Characterization/Composting</i>	M2-3
Lesson 10 – <b>My Carrots Are Green</b> <i>Composting</i>	M2-25
Lesson 11 – <b>The Worms Ate My Homework</b> <i>Vermicomposting</i>	M2-53
Lesson 12 – <b>It's My Paper, and I Like It</b> <i>Papermaking</i>	M2-69
Lesson 13 – <b>Thoreau Think Piece</b> <i>Writing Assessment: RAFT</i>	M2-87
Lesson 14 – <b>Thoreau Think Piece</b> <i>Writing Assessment: RAFT</i>	M2-97

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### Master Materials List

Student workbooks are used for every lesson. In nearly every lesson the white board and dry erase markers are used. Should you be inclined, transparencies can be made and used on an overhead projector with water based markers.

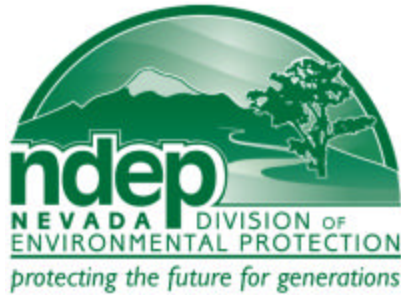
21	2L plastic soda bottles Remove the labels.
1	X-Acto knife
2	Pair nylon hose
30	Markers
7	Cotton balls
7	Cups shredded paper
17.5	Cups small kitchen waste
3.5	Cups dried leaves
3.5	Cups pencil shavings
7	TBL compost starter
7	Cups soil
14	Rubber bands
7	Cups water
1	Measuring cup
7	Reusable grocery bags
120	One gallon Zip-Lock bags
7	Mixing bowls
1	<u>Diary of a Worm</u> by Doreen Cronin
1	Container of 2lbs of red wigglers ( or vermicomposting bin)
1	Roll of paper towels
30	Magnifying glasses
4	Newspapers
7	2 quart buckets
30	6in X 6in drywall patches
30	Sponges
7	Hand held strainers
7	Potato mashers
1	Roll waxed paper
1	Pair scissors
1	5 gallon bucket
1	Cross cut shredder
7	Plastic 1 gallon storage containers
30	Sheets paper
30	Sets colored pencils / crayons



## Nevada Standard Alignment

M2-1s

Lesson	Title	Topic	<u>Nevada</u> Science	<u>Nevada</u> Language Arts	<u>Nevada</u> Geography	<u>Nevada</u> Mathematics
9	Breakin' It Down	Waste Characterization / Compost	N.5.A.1, N.5.A.4, N.5.B.2, E.5.A.4, E.5.A.5, E.5.C.3, P.5.A.4, P.5.A.6, L.5.C.2, L.5.C.3, L.5.C.4	7.5.1, 7.5.2, 7.5.3, 7.5.5, 8.5.1, 8.5.2, 8.5.4	2.5.4, 3.5.3, 5.5.1, 5.5.4, 6.5.4	5.5.1, 5.5.6
10	My Carrots Are Green	Compost	N.5.A.6, N.5.B.2, E.5.A.4, E.5.A.5, P.5.A.4, P.5.A.6, L.5.C.2, L.5.C.3, L.5.C.4	7.5.1, 7.5.2, 7.5.3, 7.5.5, 8.5.1, 8.5.2, 8.5.4	2.5.4, 3.5.3, 5.5.1, 5.5.4, 6.5.4	n/a
11	The Worms Ate My Homework	Vermicompost	N.5.A.1, N.5.B.2, E.5.A.4, E.5.A.5, P.5.A.4, P.5.A.6, L.5.A.1, L.5.A.2, L.5.C.2, L.5.C.3, L.5.C.4	7.5.1, 7.5.2, 7.5.3, 7.5.5, 8.5.1, 8.5.2, 8.5.4	2.5.4, 3.5.3, 5.5.1, 5.5.4, 6.5.4	n/a
12	It's My Paper, and I Like It	Paper Making	N.5.A.6, N.5.B.2	7.5.1, 7.5.2, 7.5.3, 7.5.5, 8.5.1, 8.5.2, 8.5.4	2.5.4, 4.5.6, 6.5.4	n/a
13	Thoreau Think Piece	Assessment	Assessment	Assessment	Assessment	Assessment
14	Thoreau Think Piece (part 2)	Assessment	Assessment	Assessment	Assessment	Assessment



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### References

#### Lesson 9 – Breakin’ it Down

United States Environmental Protection Agency. (2006). *Municipal Solid Waste in the United States: 2005 Facts and Figures* (EPA530-R-06-011).

United States Environmental Protection Agency. (2007). *Composting: Basic Information*. Retrieved June 2, 2008 from <http://www.epa.gov/epaoswer/non-hw/composting/basic.htm>

#### Lesson 10 – My Carrots Are Green

Freudenrich, Ph.D., Craig. (2001). *How Composting Works*. Retrieved June 3, 2008 from <http://home.howstuffworks.com/composting.htm>

#### Lesson 11 – The Worms Ate My Homework

Cronin, Doreen. (2003). *Diary of a Worm*. New York: HarperCollins.

New York State Department of Environmental Conservation. (2006). *“RW” Goes to School: A Teachers Guide*. Albany, NY: New York State Department of Environmental Conservation.

## Lesson 12 – **It’s My Paper, and I Like It**

Technical Association of the Pulp and Paper Industry. (2001). *Making Paper by Hand*. Retrieved June 3, 2008 from [http://www.tappi.org/paperu/art\\_class/makingPaper.htm](http://www.tappi.org/paperu/art_class/makingPaper.htm)

## Lesson 13 – **Thoreau Think Piece**

Thoreau, Henry David. (1910). *Walden*. New York: C.E. Merrill Co.

## Lesson 14 – **Thoreau Think Piece**

Discovery Education. (2007). *Discovery Education’s Puzzlemaker*. Retrieved May 29, 2008 from <http://puzzlemaker.discoveryeducation.com/>

Thoreau, Henry David. (1910). *Walden*. New York: C.E. Merrill Co.